SCIENTIFIC NOTE

Fiorinia proboscidaria Green, an Armored Scale Insect New to the Hawaiian Fauna (Homoptera: Diaspididae)

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On 20 February 1994, I collected colonies of an armored scale insect unfamiliar to me on leaves of tangerine (Citrus reticulata Blanco) near Henke Hall, University of Hawaii at Manoa campus, Honolulu. The scales were found on the lower leaf surfaces in small-to moderate-size colonies (occupying up to one-third of the leaf surface), with scales of both sexes intermingled. The presence of scales was marked by chlorotic areas on the upper leaf surfaces above them. Mature female scales are about 2 mm long, rather flat, mussel-shell shaped, pale brown in color (except the terminal first exuvium, which is somewhat greenish), with a longitudinal ridge down the middle of the second exuvium. The latter forms most of the scale covering, as the adult female stage (as in all Fiorinia species) is completely enclosed within the second exuvium (pupillarial). Male scales are about 1 mm long and pale (near white) with a fairly well defined median longitudinal ridge.

Following slide preparation, I identified the scale as Fiorinia proboscidaria Green (1900). This species, described originally from Sri Lanka, has been recorded from India, Taiwan, Ryukyu Is., Fiji, Tahiti, and Tonga (Williams and Watson 1988). The type host is Gelonium lanceolatum, but it has been reported from a number of Citrus species (C. aurantifolia Swingle, C. aurantium L., C. limon [L.] Burm.f., C. maxima [Burman] Merr., C. paradisi Macf., C. reticulata, and C. sinensis Pers.), as well as other hosts (Areca catechu L., Epipremnum pinnatum [L.] Engl., Fortunella japonica [Thunb.] Swingle, Mangifera indica L., Rhaphidophora sp., and Rosa sp.) (Williams and Watson 1988).

Microscopic details of *F. proboscidaria* have been illustrated by Takagi (1970) and Williams and Watson (1988). The species is easily separated from *F. fioriniae* (Targioni-Tozzetti), the only other *Fiorinia* species known to be present in Hawaii, by the presence in the adult female of a prominent mesal prolongation of the head between the antennae.

Literature Cited

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